

Engineering Interpretations

Building Site Development

Soil properties influence development of building sites, including the selection of the site, the design of the structure, construction, post construction performance, and maintenance. Soil limitation ratings of slight, moderate, and severe are given for shallow excavations, dwellings with and without basements, small commercial buildings, local roads and streets, and lawns, landscaping, and golf fairways.

Shallow Excavations

Shallow excavations are trenches or holes dug in the soil to a maximum depth of 5 or 6 feet. They are used for pipelines, sewer lines, telephone and power transmission lines, basements, open ditches, and cemeteries. The ratings are based on the soil properties that influence ease of digging and resistance to sloughing.

Dwellings With or Without Basements

These are single-family houses of three stories or less. The foundation is assumed to be spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or the depth of maximum frost penetration, whichever is deeper, for houses without basements, or at a depth of 7 feet if a basement is constructed. The ratings are based on properties affecting soil strength and settlement under a load, and those that affect excavation and construction costs.

Small Commercial Buildings

Limitation ratings are given for the undisturbed soil on which small commercial buildings of less than three stories without basements are built. The foundation is assumed to be placed on spread footings of reinforced concrete at a depth of 2 feet or the depth of maximum frost penetration, whichever is deeper.

Local Roads and Streets

Limitation ratings are given for the use of soils for construction of improved local roads and streets that have all-weather surfacing, commonly of asphalt, gravel with binder in it, or concrete, and that are expected to carry automobile traffic all year. These roads and streets are graded to shed water, and conventional drainage measures are provided. With the probable exception of the hard surface, roads and streets are built mainly from the soil at hand.

Lawns, Landscaping, and Golf Fairways

The soils are rated for their use in establishing and maintaining turf for lawns and golf fairways and ornamental trees and shrubs for residential type landscaping. The ratings are based on the use of soil material at the location with some land smoothing. Irrigation may or may not be needed and is not a criterion in rating. Traps, trees, roughs, and greens are not considered as part of the golf fairway. The properties considered are those listed that affect plant growth and trafficability after vegetation is established.

This subsection includes:

- **(a) Building Site Development**

Table 12.--Building Site Development

(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 1.00. The larger the value, the greater the potential limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
70030:										
Noark-----	Moderately limited		Moderately limited		Limited		Moderately limited		Very limited	
	~shrink-swell	0.45	~shrink-swell	0.33	~slope	0.68	~shrink-swell	0.45	~small stones	1.00
	(moderately limited)		(moderately limited)		(limited)		(moderately limited)		(very limited)	
					~shrink-swell	0.45			~droughty	0.30
					(moderately limited)				(slightly limited)	
									~too acid	0.06
									(slightly limited)	
Clarksville----	Slightly limited		Slightly limited		Limited		Slightly limited		Very limited	
	~large stones	0.04	~shrink-swell	0.05	~slope	0.68	~large stones	0.04	~small stones	1.00
	(slightly limited)		(slightly limited)		(limited)		(slightly limited)		(very limited)	
			~large stones	0.04	~large stones	0.04			~droughty	0.16
			(slightly limited)		(slightly limited)				(slightly limited)	
70031:										
Hailey-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~large stones	0.92	~large stones	0.92	~large stones	0.92	~large stones	0.92	~droughty	1.00
	(limited)		(limited)		(limited)		(limited)		(very limited)	
									~small stones	0.95
									(limited)	
Rueter-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
									~small stones	1.00
									(very limited)	
									~droughty	0.59
									(moderately limited)	
70032:										
Tonti-----	Slightly limited		Very limited		Slightly limited		Slightly limited		Moderately limited	
	~wetness	0.28	~wetness	1.00	~wetness	0.28	~wetness	0.28	~small stones	0.33
	(slightly limited)		(very limited)		(slightly limited)		(slightly limited)		(moderately limited)	
									~wetness	0.28
									(slightly limited)	

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
70033:										
Moko-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~hard bedrock <20"	1.00	~hard bedrock <40"	1.00	~hard bedrock <20"	1.00	~hard bedrock <20"	1.00	~droughty	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~slope	0.68	~slope	0.68	~slope	1.00	~low strength	1.00	~bedrock <20 in.	1.00
	(limited)		(limited)		(very limited)		(very limited)		(very limited)	
	~large stones	0.60	~large stones	0.60	~large stones	0.60	~large stones	0.60	~large stones >30%	1.00
	(limited)		(limited)		(limited)		(limited)		(very limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
70034:										
Moko-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~hard bedrock <20"	1.00	~hard bedrock <40"	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~slope	1.00	~slope	1.00	~hard bedrock <20"	1.00	~hard bedrock <20"	1.00	~droughty	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
									~bedrock <20 in.	1.00
									(very limited)	
Blueye-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~shrink-swell	1.00	~hard bedrock <40"	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~slope	1.00	~shrink-swell	1.00	~shrink-swell	1.00	~low strength	1.00	~small stones	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~hard bedrock	0.45	~slope	1.00	~depth to bedrock	0.45	~shrink-swell	1.00	~too clayey	0.60
	(moderately limited)		(very limited)		(moderately limited)		(very limited)		(moderately limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
70035:										
Sonsac-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~shrink-swell	1.00	~hard bedrock <40"	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~slope	1.00	~shrink-swell	1.00	~shrink-swell	1.00	~shrink-swell	1.00	~large stones	0.45
	(very limited)		(very limited)		(very limited)		(very limited)		(moderately limited)	
	~hard bedrock	0.12	~slope	1.00	~depth to bedrock	0.12	~depth to bedrock	0.12	~small stones	0.09
	(slightly limited)		(very limited)		(slightly limited)		(slightly limited)		(slightly limited)	
Gobbler-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~shrink-swell	0.79	~depth to bedrock	0.75	~shrink-swell	0.79	~shrink-swell	0.79	~small stones	1.00
	(limited)		(limited)		(limited)		(limited)		(very limited)	
			~shrink-swell	0.73			~low strength	0.78	~droughty	0.29
			(limited)				(limited)		(slightly limited)	

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>
70036:										
Sonsac-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~shrink-swell	1.00	~hard bedrock <40"	1.00	~shrink-swell	1.00	~shrink-swell	1.00	~small stones	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~hard bedrock	0.39	~shrink-swell	1.00	~depth to bedrock	0.39	~depth to bedrock	0.39	~droughty	0.58
	(moderately limited)		(very limited)		(moderately limited)		(moderately limited)		(moderately limited)	
Gobbler-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~shrink-swell	0.79	~depth to bedrock	0.72	~shrink-swell	0.79	~shrink-swell	0.79	~small stones	1.00
	(limited)		(limited)		(limited)		(limited)		(very limited)	
			~shrink-swell	0.54					~droughty	0.49
			(moderately limited)						(moderately limited)	
70037:										
Sonsac-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~shrink-swell	0.45	~hard bedrock <40"	1.00	~shrink-swell	0.45	~shrink-swell	0.45	~small stones	1.00
	(moderately limited)		(very limited)		(moderately limited)		(moderately limited)		(very limited)	
	~hard bedrock	0.25	~shrink-swell	0.28	~depth to bedrock	0.25	~depth to bedrock	0.25	~droughty	0.97
	(slightly limited)		(slightly limited)		(slightly limited)		(slightly limited)		(limited)	
Rueter-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
			~shrink-swell	0.02					~small stones	1.00
			(slightly limited)						(very limited)	
									~droughty	0.56
									(moderately limited)	
70038:										
Moko-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~hard bedrock <20"	1.00	~hard bedrock <40"	1.00	~hard bedrock <20"	1.00	~hard bedrock <20"	1.00	~droughty	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~large stones	0.75	~large stones	0.75	~large stones	0.75	~low strength	1.00	~bedrock <20 in.	1.00
	(limited)		(limited)		(limited)		(very limited)		(very limited)	
					~slope	0.68	~large stones	0.75	~large stones >30%	1.00
					(limited)		(limited)		(very limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>
70050:										
Rueter-----	Limited		Limited		Very limited		Limited		Very limited	
	~slope	0.76	~slope	0.76	~slope	1.00	~slope	0.63	~small stones	1.00
	(limited)		(limited)		(very limited)		(limited)		(very limited)	
	~large stones	0.00	~shrink-swell	0.14	~large stones	0.00	~large stones	0.00	~slope	0.63
	(slightly limited)		(slightly limited)		(slightly limited)		(slightly limited)		(limited)	
			~large stones	0.00					~droughty	0.56
			(slightly limited)						(moderately limited)	
Goss-----	Limited		Limited		Very limited		Limited		Limited	
	~slope	0.76	~slope	0.76	~slope	1.00	~slope	0.63	~small stones	0.82
	(limited)		(limited)		(very limited)		(limited)		(limited)	
	~shrink-swell	0.45	~shrink-swell	0.30	~shrink-swell	0.45	~shrink-swell	0.45	~slope	0.63
	(moderately limited)		(slightly limited)		(moderately limited)		(moderately limited)		(limited)	
									~droughty	0.43
									(moderately limited)	
70051:										
Hailey-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~large stones	0.98	~large stones	0.98	~large stones	0.98	~large stones	0.98	~droughty	1.00
	(limited)		(limited)		(limited)		(limited)		(very limited)	
									~small stones	1.00
									(very limited)	
Rueter-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
									~small stones	1.00
									(very limited)	
									~droughty	0.59
									(moderately limited)	
71252:										
Britwater-----	Not limited		Not limited		Limited		Not limited		Moderately limited	
					~slope	0.68			~small stones	0.33
					(limited)				(moderately limited)	
									~too acid	0.24
									(slightly limited)	

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>
73070:										
Sowcoon-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~ponded	1.00	~ponded	1.00	~ponded (wetness)	1.00	~ponded (wetness)	1.00	~ponded (wetness)	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~wetness	0.60	~wetness	1.00	~wetness	0.60	~wetness	0.60	~wetness	0.60
	(limited)		(very limited)		(limited)		(limited)		(limited)	
	~shrink-swell	0.45	~shrink-swell	0.45	~shrink-swell	0.45	~shrink-swell	0.45	~too acid	0.06
	(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)		(slightly limited)	
73113:										
Scholten-----	Slightly limited		Very limited		Limited		Slightly limited		Very limited	
	~wetness	0.28	~wetness	1.00	~slope	0.68	~wetness	0.28	~small stones	1.00
	(slightly limited)		(very limited)		(limited)		(slightly limited)		(limited)	
					~wetness	0.28			~droughty	0.90
					(slightly limited)				(limited)	
									~wetness	0.28
									(slightly limited)	
73114:										
Captina-----	Moderately limited		Very limited		Moderately limited		Very limited		Moderately limited	
	~wetness	0.45	~wetness	1.00	~wetness	0.45	~low strength	1.00	~wetness	0.45
	(moderately limited)		(very limited)		(moderately limited)		(very limited)		(moderately limited)	
							~wetness	0.45		
							(moderately limited)			
73115:										
Horneybuck----	Moderately limited		Very limited		Moderately limited		Moderately limited		Moderately limited	
	~wetness	0.49	~wetness	1.00	~wetness	0.49	~wetness	0.49	~wetness	0.49
	(moderately limited)		(very limited)		(moderately limited)		(moderately limited)		(moderately limited)	
					~slope	0.45			~too acid	0.12
					(moderately limited)				(slightly limited)	
Tonti-----	Moderately limited		Very limited		Moderately limited		Moderately limited		Moderately limited	
	~wetness	0.34	~wetness	1.00	~slope	0.45	~wetness	0.34	~wetness	0.34
	(moderately limited)		(very limited)		(moderately limited)		(moderately limited)		(moderately limited)	
					~wetness	0.34				
					(moderately limited)					
73116:										
Pomme-----	Not limited		Not limited		Slightly limited		Not limited		Not limited	
					~slope	0.15				
					(slightly limited)					

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73117:										
Clarksville----	Moderately limited		Moderately limited		Limited		Not limited		Very limited	
	~slope	0.30	~slope	0.30	~slope	0.99			~small stones	1.00
	(moderately limited)		(moderately limited)		(limited)				(very limited)	
			~shrink-swell	0.07					~droughty	0.66
			(slightly limited)						(limited)	
Scholten-----	Moderately limited		Very limited		Limited		Slightly limited		Very limited	
	~slope	0.30	~wetness	1.00	~slope	0.99	~wetness	0.28	~small stones	1.00
	(moderately limited)		(very limited)		(limited)		(slightly limited)		(very limited)	
	~wetness	0.28	~slope	0.30	~wetness	0.28			~droughty	0.89
	(slightly limited)		(moderately limited)		(slightly limited)				(limited)	
									~wetness	0.28
									(slightly limited)	
Hailey-----	Moderately limited		Moderately limited		Limited		Not limited		Very limited	
	~slope	0.30	~slope	0.30	~slope	0.99			~small stones	1.00
	(moderately limited)		(moderately limited)		(limited)				(very limited)	
									~droughty	0.82
									(limited)	
73118:										
Rueter-----	Limited		Limited		Very limited		Limited		Very limited	
	~slope	0.76	~slope	0.76	~slope	1.00	~slope	0.63	~small stones	1.00
	(limited)		(limited)		(very limited)		(limited)		(very limited)	
	~large stones	0.00	~shrink-swell	0.14	~large stones	0.00	~large stones	0.00	~slope	0.63
	(slightly limited)		(slightly limited)		(slightly limited)		(slightly limited)		(limited)	
			~large stones	0.00					~droughty	0.56
			(slightly limited)						(moderately limited)	
Goss-----	Limited		Limited		Very limited		Limited		Limited	
	~slope	0.76	~slope	0.76	~slope	1.00	~slope	0.63	~small stones	0.82
	(limited)		(limited)		(very limited)		(limited)		(limited)	
	~shrink-swell	0.45	~shrink-swell	0.30	~shrink-swell	0.45	~shrink-swell	0.45	~slope	0.63
	(moderately limited)		(slightly limited)		(moderately limited)		(moderately limited)		(limited)	
									~droughty	0.43
									(moderately limited)	
73119:										
Rueter-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
			~shrink-swell	0.12					~small stones	1.00
			(slightly limited)						(very limited)	
									~droughty	0.54
									(moderately limited)	

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>
73119:										
Hailey-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~large stones	0.98	~large stones	0.98	~large stones	0.98	~large stones	0.98	~small stones	1.00
	(limited)		(limited)		(limited)		(limited)		(very limited)	
									~droughty	1.00
									(very limited)	
73120:										
Rueter-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
									~small stones	1.00
									(very limited)	
Gasconade-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~hard bedrock <40"	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~hard bedrock <20"	1.00	~slope	1.00	~hard bedrock <20"	1.00	~hard bedrock <20"	1.00	~droughty	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~shrink-swell	0.45	~large stones	0.15	~shrink-swell	0.45	~low strength	1.00	~bedrock <20 in.	1.00
	(moderately limited)		(slightly limited)		(moderately limited)		(very limited)		(very limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
73121:										
Scholten-----	Moderately limited		Very limited		Moderately limited		Moderately limited		Moderately limited	
	~wetness	0.34	~wetness	1.00	~slope	0.45	~wetness	0.34	~wetness	0.34
	(moderately limited)		(very limited)		(moderately limited)		(moderately limited)		(moderately limited)	
					~wetness	0.34				
					(moderately limited)					
Tonti-----	Moderately limited		Very limited		Moderately limited		Limited		Moderately limited	
	~wetness	0.39	~wetness	1.00	~slope	0.45	~low strength	0.78	~wetness	0.39
	(moderately limited)		(very limited)		(moderately limited)		(limited)		(moderately limited)	
					~wetness	0.39	~wetness	0.39		
					(moderately limited)		(moderately limited)			
73122:										
Gasconade-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~hard bedrock <40"	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~hard bedrock <20"	1.00	~slope	1.00	~hard bedrock <20"	1.00	~hard bedrock <20"	1.00	~droughty	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~shrink-swell	0.45	~large stones	0.15	~shrink-swell	0.45	~shrink-swell	0.45	~bedrock <20 in.	1.00
	(moderately limited)		(slightly limited)		(moderately limited)		(moderately limited)		(very limited)	

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73122:										
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
73123:										
Mano-----	Moderately limited		Limited		Very limited		Slightly limited		Limited	
	~slope	0.45	~shrink-swell	0.66	~slope	1.00	~slope	0.04	~small stones	0.82
	(moderately limited)		(limited)		(very limited)		(slightly limited)		(limited)	
			~slope	0.45					~large stones	0.30
			(moderately limited)						(moderately limited)	
									~slope	0.04
									(slightly limited)	
Ocie-----	Moderately limited		Moderately limited		Very limited		Moderately limited		Limited	
	~slope	0.45	~depth to bedrock	0.54	~slope	1.00	~shrink-swell	0.45	~small stones	0.91
	(moderately limited)		(moderately limited)		(very limited)		(moderately limited)		(limited)	
	~shrink-swell	0.45	~shrink-swell	0.53	~shrink-swell	0.45	~slope	0.04	~too acid	0.18
	(moderately limited)		(moderately limited)		(moderately limited)		(slightly limited)		(slightly limited)	
			~slope	0.45					~slope	0.04
			(moderately limited)						(slightly limited)	
73124:										
Alred-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
			~shrink-swell	0.57					~small stones	1.00
			(moderately limited)						(very limited)	
									~too acid	0.24
									(slightly limited)	
Ocie-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~shrink-swell	1.00	~slope	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~slope	1.00	~depth to bedrock	0.79	~shrink-swell	1.00	~low strength	1.00	~small stones	0.48
	(very limited)		(limited)		(very limited)		(very limited)		(moderately limited)	
			~shrink-swell	0.59			~shrink-swell	1.00		
			(moderately limited)				(very limited)			
73125:										
Knobby-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~hard bedrock <20"	1.00	~hard bedrock <40"	1.00	~hard bedrock <20"	1.00	~hard bedrock <20"	1.00	~droughty	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~slope	0.45	~slope	0.45	~slope	1.00	~large stones	0.15	~bedrock <20 in.	1.00
	(moderately limited)		(moderately limited)		(very limited)		(slightly limited)		(very limited)	
	~large stones	0.15	~large stones	0.15	~large stones	0.15	~slope	0.04	~large stones	0.79
	(slightly limited)		(slightly limited)		(slightly limited)		(slightly limited)		(limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73126:										
Knobby-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~hard bedrock <20"	1.00	~hard bedrock <40"	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~slope	1.00	~slope	1.00	~hard bedrock <20"	1.00	~hard bedrock <20"	1.00	~droughty	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~large stones	0.04	~large stones	0.04	~large stones	0.04	~large stones	0.04	~bedrock <20 in.	1.00
	(slightly limited)		(slightly limited)		(slightly limited)		(slightly limited)		(very limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
73127:										
Gobbler-----	Moderately limited		Limited		Limited		Moderately limited		Slightly limited	
	~shrink-swell	0.45	~depth to bedrock	0.64	~slope	0.68	~shrink-swell	0.45	~small stones	0.06
	(moderately limited)		(limited)		(limited)		(moderately limited)		(slightly limited)	
			~shrink-swell	0.33	~shrink-swell	0.45			~droughty	0.03
			(moderately limited)		(moderately limited)				(slightly limited)	
Sonsac-----	Very limited		Very limited		Very limited		Very limited		Slightly limited	
	~shrink-swell	1.00	~hard bedrock <40"	1.00	~shrink-swell	1.00	~shrink-swell	1.00	~depth to bedrock	0.15
	(very limited)		(very limited)		(very limited)		(very limited)		(slightly limited)	
	~hard bedrock	0.30	~shrink-swell	1.00	~slope	0.83	~depth to bedrock	0.30	~droughty	0.04
	(slightly limited)		(very limited)		(limited)		(slightly limited)		(slightly limited)	
	~slope	0.15	~slope	0.15	~depth to bedrock	0.30				
	(slightly limited)		(slightly limited)		(slightly limited)					
73128:										
Gobbler-----	Limited		Limited		Very limited		Limited		Very limited	
	~slope	0.76	~slope	0.76	~slope	1.00	~slope	0.63	~small stones	1.00
	(limited)		(limited)		(very limited)		(limited)		(limited)	
	~shrink-swell	0.45	~shrink-swell	0.47	~shrink-swell	0.45	~shrink-swell	0.45	~slope	0.63
	(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)		(limited)	
			~depth to bedrock	0.44					~droughty	0.50
			(moderately limited)						(moderately limited)	
Sonsac-----	Very limited		Very limited		Very limited		Very limited		Limited	
	~shrink-swell	1.00	~hard bedrock <40"	1.00	~slope	1.00	~low strength	1.00	~small stones	0.64
	(very limited)		(very limited)		(very limited)		(very limited)		(limited)	
	~slope	0.76	~shrink-swell	1.00	~shrink-swell	1.00	~shrink-swell	1.00	~slope	0.63
	(limited)		(very limited)		(very limited)		(very limited)		(limited)	
	~hard bedrock	0.53	~slope	0.76	~depth to bedrock	0.53	~slope	0.63	~droughty	0.61
	(moderately limited)		(limited)		(moderately limited)		(limited)		(limited)	

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73129:										
Gasconade-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~hard bedrock <20"	1.00	~hard bedrock <40"	1.00	~hard bedrock <20"	1.00	~hard bedrock <20"	1.00	~droughty	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~shrink-swell	0.45	~shrink-swell	0.45	~slope	0.68	~low strength	1.00	~bedrock <20 in.	1.00
	(moderately limited)		(moderately limited)		(limited)		(very limited)		(very limited)	
	~large stones	0.35	~large stones	0.35	~shrink-swell	0.45	~shrink-swell	0.45	~too clayey	0.60
	(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)	
73130:										
Gasconade-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~hard bedrock <20"	1.00	~hard bedrock <40"	1.00	~hard bedrock <20"	1.00	~hard bedrock <20"	1.00	~droughty	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~slope	0.68	~slope	0.68	~slope	1.00	~shrink-swell	0.45	~bedrock <20 in.	1.00
	(limited)		(limited)		(very limited)		(moderately limited)		(very limited)	
	~shrink-swell	0.45	~shrink-swell	0.45	~shrink-swell	0.45	~slope	0.37	~small stones	1.00
	(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)		(very limited)	
73131:										
Gasconade-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~hard bedrock <20"	1.00	~hard bedrock <40"	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~slope	1.00	~slope	1.00	~hard bedrock <20"	1.00	~hard bedrock <20"	1.00	~droughty	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~shrink-swell	0.45	~shrink-swell	0.45	~shrink-swell	0.45	~shrink-swell	0.45	~bedrock <20 in.	1.00
	(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)		(very limited)	
73132:										
Gasconade-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~hard bedrock <40"	1.00	~slope	1.00	~slope	1.00	~slope	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~hard bedrock <20"	1.00	~slope	1.00	~hard bedrock <20"	1.00	~hard bedrock <20"	1.00	~droughty	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~large stones	1.00	~large stones	1.00	~large stones	1.00	~low strength	1.00	~bedrock <20 in.	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
73133:										
Alred-----	Slightly limited		Slightly limited		Limited		Slightly limited		Moderately limited	
	~large stones	0.10	~shrink-swell	0.29	~slope	0.68	~large stones	0.10	~small stones	0.48
	(slightly limited)		(slightly limited)		(limited)		(slightly limited)		(moderately limited)	
			~large stones	0.10	~large stones	0.10			~droughty	0.11
			(slightly limited)		(slightly limited)				(slightly limited)	
Ocie-----	Moderately limited		Limited		Limited		Moderately limited		Not limited	
	~shrink-swell	0.45	~depth to bedrock	0.79	~slope	0.68	~shrink-swell	0.45		
	(moderately limited)		(limited)		(limited)		(moderately limited)			
			~shrink-swell	0.76	~shrink-swell	0.45				
			(limited)		(moderately limited)					

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73134:										
Alred-----	Limited		Limited		Very limited		Limited		Very limited	
	~slope	0.76	~slope	0.76	~slope	1.00	~slope	0.63	~small stones	1.00
	(limited)		(limited)		(very limited)		(limited)		(very limited)	
			~shrink-swell	0.62					~slope	0.63
			(limited)						(limited)	
									~droughty	0.02
									(slightly limited)	
Ocie-----	Limited		Limited		Very limited		Limited		Limited	
	~slope	0.76	~slope	0.76	~slope	1.00	~slope	0.63	~small stones	0.64
	(limited)		(limited)		(very limited)		(limited)		(limited)	
	~shrink-swell	0.45	~depth to bedrock	0.75	~shrink-swell	0.45	~shrink-swell	0.45	~slope	0.63
	(moderately limited)		(limited)		(moderately limited)		(moderately limited)		(limited)	
			~shrink-swell	0.57					~too acid	0.18
			(moderately limited)						(slightly limited)	
Sonsac-----	Limited		Very limited		Very limited		Very limited		Limited	
	~slope	0.76	~hard bedrock <40"	1.00	~slope	1.00	~low strength	1.00	~slope	0.63
	(limited)		(very limited)		(very limited)		(very limited)		(limited)	
	~shrink-swell	0.45	~slope	0.76	~shrink-swell	0.45	~slope	0.63	~small stones	0.48
	(moderately limited)		(limited)		(moderately limited)		(limited)		(moderately limited)	
	~hard bedrock	0.33	~shrink-swell	0.33	~depth to bedrock	0.33	~shrink-swell	0.45	~depth to bedrock	0.18
	(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)		(slightly limited)	
74638:										
Waben-----	Slightly limited		Slightly limited		Limited		Slightly limited		Very limited	
	~large stones	0.00	~large stones	0.00	~slope	0.68	~large stones	0.00	~small stones	1.00
	(slightly limited)		(slightly limited)		(limited)		(slightly limited)		(limited)	
					~large stones	0.00				
					(slightly limited)					
74639:										
Waben-----	Limited		Limited		Very limited		Limited		Very limited	
	~slope	0.76	~slope	0.76	~slope	1.00	~slope	0.63	~small stones	1.00
	(limited)		(limited)		(very limited)		(limited)		(very limited)	
									~slope	0.63
									(limited)	
									~too acid	0.48
									(moderately limited)	
74640:										
Hootentown----	Very limited		Very limited		Very limited		Limited		Not limited	
	~flooding	1.00	~flooding	1.00	~flooding	1.00	~flooding (rare)	0.90		
	(very limited)		(very limited)		(very limited)		(limited)			

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
75401:										
Horsecreek-----	Very limited		Very limited		Very limited		Very limited		Moderately limited	
	~flooding	1.00	~flooding	1.00	~flooding	1.00	~flooding	1.00	~flooding	0.60
	(very limited)		(very limited)		(very limited)		(very limited)		(moderately limited)	
							~low strength	1.00		
							(very limited)			
Jamesfin-----	Very limited		Very limited		Very limited		Very limited		Moderately limited	
	~flooding	1.00	~flooding	1.00	~flooding	1.00	~flooding	1.00	~flooding	0.60
	(very limited)		(very limited)		(very limited)		(very limited)		(moderately limited)	
							~low strength	0.78		
							(limited)			
75402:										
Pinerun-----	Very limited		Very limited		Very limited		Very limited		Moderately limited	
	~flooding	1.00	~flooding	1.00	~flooding	1.00	~flooding	1.00	~flooding	0.60
	(very limited)		(very limited)		(very limited)		(very limited)		(moderately limited)	
			~shrink-swell	0.08						
			(slightly limited)							
75403:										
Cedargap-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~flooding	1.00	~flooding	1.00	~flooding	1.00	~flooding	1.00	~small stones	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
									~droughty	0.97
									(limited)	
									~flooding	0.60
									(moderately limited)	
Woolly-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~flooding	1.00	~flooding	1.00	~flooding	1.00	~flooding	1.00	~small stones	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
			~depth to bedrock	0.60					~droughty	0.90
			(limited)						(limited)	
									~flooding	0.60
									(moderately limited)	
75404:										
Pinerun-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~flooding	1.00	~flooding	1.00	~flooding	1.00	~flooding	1.00	~small stones	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(limited)	
	~shrink-swell	0.45	~shrink-swell	0.45	~shrink-swell	0.45	~shrink-swell	0.45	~droughty	0.63
	(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)		(limited)	
									~flooding	0.60
									(moderately limited)	

Table 12.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>	<u>Limitation</u>	<u>Value</u>
75405:										
Pinerun-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~flooding	1.00	~flooding	1.00	~flooding	1.00	~flooding	1.00	~small stones	1.00
	(very limited)		(very limited)		(very limited)		(very limited)		(very limited)	
	~shrink-swell	0.45	~shrink-swell	0.43	~shrink-swell	0.45	~shrink-swell	0.45	~flooding	0.60
	(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)	
									~large stones	0.01
									(slightly limited)	
Waben-----	Not limited		Not limited		Slightly limited		Not limited		Very limited	
					~slope	0.15			~small stones	1.00
					(slightly limited)				(limited)	
									~too acid	0.24
									(slightly limited)	
99000:										
Pits, quarries-	Not rated		Not rated		Not rated		Not rated		Not rated	
99001:										
Water-----	Not rated		Not rated		Not rated		Not rated		Not rated	
99005:										
Landfills-----	Not rated		Not rated		Not rated		Not rated		Not rated	